

PCT REQUEST

Original (for SUBMISSION)

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| 0 | For receiving Office use only | |
| 0-1 | International Application No. | |
| 0-2 | International Filing Date | |
| 0-3 | Name of receiving Office and "PCT International Application" | |
| 0-4 | Form PCT/RO/101 PCT Request | |
| 0-4-1 | Prepared Using | PCT-SAFE [EASY mode] Version 3.50 (Build 0002.163) |
| 0-5 | Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty | |
| 0-6 | Receiving Office (specified by the applicant) | United Kingdom Patent Office (RO/GB) |
| 0-7 | Applicant's or agent's file reference | XA1822 |
| I | Title of Invention | DETECTION OF AN ELECTROMAGNETIC SIGNAL |
| II | Applicant | |
| II-1 | This person is | applicant only |
| II-2 | Applicant for | all designated States except US |
| II-4 | Name | MBDA UK LIMITED |
| II-5 | Address | Six Hills Way Stevenage Hertfordshire SG1 2DA United Kingdom |
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| II-8 | Telephone No. | +44 (0) 1252 383440 |
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| III-1 | Applicant and/or inventor | |
| III-1-1 | This person is | applicant and inventor |
| III-1-2 | Applicant for | US only |
| III-1-4 | Name (LAST, First) | JENNINGS, Martin Robert |
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| III-1-7 | State of residence | GB |
| III-2 | Applicant and/or inventor | |
| III-2-1 | This person is | applicant and inventor |
| III-2-2 | Applicant for | US only |
| III-2-4 | Name (LAST, First) | RICHARDS, Thomas John |
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| III-2-6 | State of nationality | GB |
| III-2-7 | State of residence | IT |
| IV-1 | Agent or common representative; or address for correspondence | |
| | The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: | agent |
| IV-1-1 | Name (LAST, First) | LEWIS, Debra Louise |
| IV-1-2 | Address | BAE SYSTEMS plc Group IP Department Lancaster House, P.O. Box 87, Farnborough Aerospace Centre Farnborough Hampshire GU14 6YU United Kingdom |
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| IV-2 | Additional agent(s) | agent |
| IV-2-1 | Name (LAST, First) | MACLEAN, Martin David |
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| IV-4-6 | Agent's registration No. | |

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| IV-5 | Additional agent(s) | agent |
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| IV-6 | Additional agent(s) | agent |
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| IV-6-6 | Agent's registration No. | |
| IV-7 | Additional agent(s) | agent |
| IV-7-1 | Name (LAST, First) | WOJCIK, Lucy Eleanor |
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| IV-7-5 | e-mail | |
| IV-7-6 | Agent's registration No. | |

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| IV-8 | Additional agent(s) | agent |
| IV-8-1 | Name (LAST, First) | MUKHERJEE, Aniruddha |
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| IV-9 | Additional agent(s) | agent |
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| IV-9-5 | e-mail | |
| IV-9-6 | Agent's registration No. | |
| V | DESIGNATIONS | |
| V-1 | The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents. | |
| VI-1 | Priority claim of earlier national application | |
| VI-1-1 | Filing date | 05 November 2003 (05.11.2003) |
| VI-1-2 | Number | 0325785.4 |
| VI-1-3 | Country | GB |

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| VI-2 | Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): | VI-1 | |
| VII-1 | International Searching Authority Chosen | European Patent Office (EPO) (ISA/EP) | |
| VIII | Declarations | Number of declarations | |
| VIII-1 | Declaration as to the identity of the inventor | - | |
| VIII-2 | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent | - | |
| VIII-3 | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application | - | |
| VIII-4 | Declaration of inventorship (only for the purposes of the designation of the United States of America) | - | |
| VIII-5 | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty | - | |
| IX | Check list | number of sheets | electronic file(s) attached |
| IX-1 | Request (including declaration sheets) | 7 | ✓ |
| IX-2 | Description | 10 | - |
| IX-3 | Claims | 4 | - |
| IX-4 | Abstract | 1 | ✓ |
| IX-5 | Drawings | 3 | - |
| IX-7 | TOTAL | 25 | |
| | Accompanying Items | paper document(s) attached | electronic file(s) attached |
| IX-8 | Fee calculation sheet | ✓ | - |
| IX-11 | Copy of general power of attorney | ✓ | - |
| IX-17 | PCT-SAFE physical media | - | ✓ |
| IX-18 | other | GB PF23/77 | |
| IX-19 | Figure of the drawings which should accompany the abstract | 1 | |
| IX-20 | Language of filing of the international application | English | |
| X-1 | Signature of applicant, agent or common representative | Debra Lewis | |
| X-1-1 | Name (LAST, First) | LEWIS, Debra Louise | |
| X-1-2 | Name of signatory | | |
| X-1-3 | Capacity | | |

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| 13-2-3 | Validation messages Names | Green? Applicant 1:Street address missing |
| 13-2-7 | Validation messages Contents | Green? Reference number for attached copy of general power of attorney not indicated. |
| 13-2-9 | Validation messages Payment | Green? Please ensure that you have a valid deposit account with the receiving Office selected. |

A signal detector system comprises a single signal detector having a limited on-time during which any received electromagnetic signal can be assessed. The signal detector receives electromagnetic signals from a single direction in space through a single optical fibre, a signal splitter which splits the collected signal between three optical paths, and a signal combiner which combines the portions of the signal transmitted by the three optical paths and transmits the combined signal to a signal detector input. Each of the optical paths includes a respective optical delay designed to delay transmission of any received signal towards the signal detector. In this manner the signal detector will receive any signals that arrived at the optical fibre during three separate periods of time.

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